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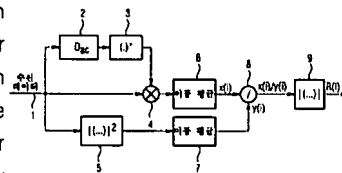
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(54) OPTIMIZED SYNCHRONIZATION PREAMBLE STRUCTURE

(57) Abstract:

PURPOSE: An optimized synchronization preamble structure is provided to optimize the time domain signal characteristic of an A field and a receiver synchronization characteristic based on an automatically correlation. CONSTITUTION: A time domain signal of an A field of a preamble for synchronization in an OFDM(orthogonal frequency division multiplexing) transmitting system is generated by performing inverse fast Fourier transform of a frequency domain string SA composed of twelve complex symbols mapped by



inverse fast Fourier transform of 64 points based on a mapping rule S-26, $26 = \sqrt{2} \cdot (0, 0, 0, 0, S1, 0, 0, 0, S2, 0, 0, 0, S3, 0, 0, 0, S4, 0, 0, 0, S5, 0, 0, 0, S6, 0, 0, 0, S7, 0, 0, 0, S8, 0, 0, 0, S9, 0, 0, 0, S10, 0, 0, 0, S11, 0, 0, 0, S12, 0, 0, 0, 0)$. The frequency domain string SA of the A field is represented by, for instance, $S1, \dots, S12 = +A, +A, +A, +A, +A, -A, -A, +A, +A, -A, +A, -A$ or $S1, \dots, S12 = -A, +A, -A, +A, -A, -A, +A, +A, -A, +A, +A, +A$.

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